MODIS Science Data Support Team (SDST) Meeting Minutes 11/08/91

ATTENDEES:	Lloyd Carpenter	RDC	982-3708
	Al Fleig	900	286-7747
	Harold Geller	RDC	982-3740
	Tom Goff	RDC	982-3704
	Liam Gumley	RDC	982-3748
	Lou Kouvaris	Hughes	464-7365
	Ravi Kumar	STX	513-1630
	Ed Masuoka	920	286-7608
	Al McKay	RDC	982-3720
	Jim Ormsby	974	286-6811
	Wil Webster	920.2	286-4506

NEXT MEETING:	Date	Time	Building	Room
	Friday, November 15	10:00 am	16	242

TOPICS:

1. MODIS AIRBORNE SIMULATOR (MAS) AND NETCDF FORMAT: The first MAS Level-1A dataset was received from Ames by Liam Gumley. It consists of 24,000 scanlines of data taken on a test flight over California and Nevada on October 31, The corresponding INS dataset was also received. The flight included three straight-line flight tracks. The first goes from the San Francisco area across California and into Nevada. The second track comes back across California and out over the Pacific. The final track comes back to the California coastline. Quick-look images were created from channel 2 (0.68 microns) of the raw Level-1A data. One is at full resolution for the Lake Tahoe area. Another is a composite of the entire flight subsampled at every 10th line and pixel. The calibrated radiances (based upon the best available calibration information) and geolocations (based upon the INS data for the straight-line tracks) are being computed and written to a Level-1B netCDF file. No significant problems have been encountered in the processing software. The noise level in the black-body data from the thermal infrared channels is higher than expected. Tom Goff gave a status report on the NetCDF implementation for MAS data, including various utility programs for working with the NetCDF MAS data.

2. MODIS TEAM LEADER COMPUTING FACILITY (TLCF) PLAN: Al McKay presented an update to the MODIS TLCF Plan. He presented a context diagram showing the TLCF/PGS and TLCF/DADS interfaces, a corresponding

data dictionary, excerpts from the ECS SOW on science computing facility functions, a list of functions for the MODIS TLCF, plus information on toolkits and other support to be provided by the ECS. A "strawman" report is scheduled for January 3, 1992

3. MODIS SDST FY 1992 WORK PLAN: Lloyd Carpenter presented the preliminary version of the FY 1992 Work Plan (which is distinct from the Project Plan, although it covers some of the same topics). The Plan includes sections on MODIS software and data management, Team Member algorithm support, SDST algorithm development, image registration, digital elevation models, simulations of MODIS instrument data, the MODIS TLCF, the MODIS Airborne Simulator support, and SDST deliverables. Additional information is needed on Level-1A and 1B algorithm development, identification of the process and procedures, review of MODIS instrument development, training, development of standards, coordination with the Team Members and the MCST, development of schedules, and level of effort.

ACTION ITEMS:

08/30/91 [Lloyd Carpenter and Team]: Draft a schedule of work for the next 12 months. Include primary events and milestones, documents to be produced, software development, MAS support, etc. (A draft was included in the handout.) STATUS: Open. Due date 09/27/91.

10/04/91 [Phil Ardanuy and Team]: Prepare questions for the project to characterize the spacecraft position and attitude knowledge and the MODIS pointing knowledge in a way that will facilitate the evaluation of methods such as image registration to meet the science team requirements for earth location. (The letter to the project was prepared, 10/28/91.) STATUS: Open. Due date 10/18/91.

10/04/91 [Tom Goff]: Examine and describe the Miami DSP navigation scheme in relation to MODIS navigation. Status: Open. Due date 11/15/91.

11/08/91 [Tom Goff]: Meet with Angel Li (currently at GSFC) again before he leaves GSFC for more information regarding the DSP. Status: Open. Due date 12/06/91.